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Session C7- Institutionalizing dam removal

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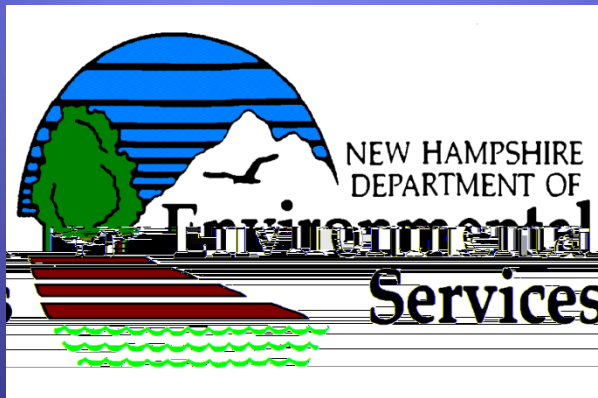
Institutionalizing Dam Removal



Presented by:
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Connecticut River Watershed Council

Special Training Events and Publications

BARRIER REMOVAL SEDIMENT MANAGEMENT



Presentation to the River Restoration Task Force
May 24, 2011

Welcome to the Dam Removal Project Managers Training



Presented October 22, 2009

User's Guide to Vermont Dam Removals

Vermont Agency of Natural Resources

October 2009

A 25 page booklet containing the Why, How, Regulatory and Funding guidance for dam removal in Vermont.

ANR Dam Retrofit Process

Process for Developing a New Hydroelectric Project in Vermont

ANR INITIAL PROJECT REVIEW Anticipated Level-of-Effort: Low

The Initial project review (IPR) is optional, and the project proponent may initiate the review process by filing a pre-application document (PAD) with FERC and the resource agencies

Project proponent prepares a project description (with sketch plan and map) describing:

- Location
- Hydrology (drainage area at intake, flow duration curve)
- Preliminary design of civil works (intake, penstock, powerhouse), turbine and generator
- Proposed operating regime

ANR staff conducts site visit

ANR provides proponent with an initial project review letter that:

- Documents critical project assumptions, based on written description and site visit
- Describes any available background data and information
- Identifies potential issues, including those that may be an obstacle to development
- Outlines additional information/study needs (preliminary)

Proponent clarifies ANR assumptions and issues

Based on ANR review and economic factors, proponent decides to proceed with project

Path 1

FEASIBILITY STUDY

Anticipated level-of-effort: Medium/High

Proponent completes a prefeasibility study that includes:

- Hydrology (total flow, flow available)
- Constraints (flows, T&E species, recreation and aesthetics, historic preservation, hazardous materials)
- Cost opinion (equipment, civil works, regulatory and legal, engineering)
- Economics (income and payback period)

Proponent determines that the project merits a full feasibility study

Proponent completes a full feasibility study that includes:

- Detailed topography and bathymetry
- Detailed hydraulic analysis
- Borings and geotechnical data
- Consideration of ANR issues based on existing information
- Detailed energy and cost analysis

Proponent decides to pursue FERC license or exemption

Proponent develops FERC pre-application document (PAD) using existing information and results of feasibility study and initiates FERC process by filing PAD with FERC, with copies to ANR and other relevant state agencies and stakeholders

Path 2

NH River Restoration Task Force Members

- U.S. Fish and Wildlife Service
- U.S. Environmental Protection Agency
- U.S. Army Corps of Engineers
- U.S. Geological Survey
- U.S. National Park Service
- NOAA Restoration Center
- USDA, Natural Resources Conservation Service
- N.H. Fish and Game Dept.
- N.H. Dept. of Environmental Services
- N.H. Office of Emergency Management
- State Historic Preservation Office
- Connecticut River Watershed Council
- American Rivers
- Coastal Conservation Association
- Coldwater Fisheries Coalition
- Conservation Law Foundation
- Lamprey River Local Advisory Committee
- Ashuelot River Local Advisory Committee
- Merrimack Valley Paddlers
- New Hampshire Rivers Council
- Trout Unlimited
- The Nature Conservancy
- Piscataqua Region Estuaries Partnership

VT Dam Task Force Members

- U.S. Fish and Wildlife Service
- U.S. EPA
- U.S. Army Corps of Engineers
- U.S. Geological Survey
- U.S. National Park Service
- NOAA Restoration Center
- Natural Resources Conservation Service
- VT Fish and Wildlife Dept.
- VT Dept. of Environmental Conservation
- VT State Historic Preservation Office
- Connecticut River Watershed Council
- American Rivers
- Vermont Department of Public Service
- Vermont Public Service Board
- Lake Champlain International
- The Nature Conservancy
- Trout Unlimited
- Vermont Natural Resources Council
- Vermont Paddlers Club
- Vermont River Conservancy
- Trout Unlimited
- The Nature Conservancy
- Friends of the Winooski River

NH RRTF first dam removal McGoldrick



VT Task Force Removal Cox Brook

